

Federal Operating Permit Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1 of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	The Goodyear Tire and Rubber Company
Facility Name:	The Goodyear Tire and Rubber Company
Facility Location:	1901 Goodyear Boulevard Danville, VA 24541
Registration Number:	30106
Permit Number:	SCRO30106

This permit includes the following programs:

Federally Enforceable Requirements - Clean Air Act (Sections I through IX)

<u>November 27, 2007</u>	<u>November 26, 2012</u>
Effective Date	Expiration Date

South Central Regional Director, Department of Environmental Quality

November 27, 2007
Signature Date

Table of Contents, 2 pages
Permit Conditions, 39 pages

Table of Contents

I.	Facility Information.....	1
II.	Emission Units.....	2
III.	Fuel Burning Equipment Requirements.....	6
	A. Fuel Burning Equipment Emission Unit Limitations	6
	B. Fuel Burning Equipment Maintenance/Operating Procedures	8
	C. Fuel Burning Equipment Monitoring.....	8
	D. Fuel Burning Equipment Recordkeeping.....	9
	E. Fuel Burning Equipment Reporting.....	10
IV.	Receiving Equipment Requirements.....	11
	A. Receiving Limitations	11
	B. Receiving Maintenance/Operating Procedures.....	11
	C. Receiving Monitoring	11
	D. Receiving Recordkeeping	12
V.	Mixing Equipment Requirements	12
	A. Mixing Limitations	12
	B. Mixing Maintenance/Operating Procedures	14
	C. Mixing Monitoring.....	15
	D. Mixing Recordkeeping.....	18
	E. Mixing Testing.....	19
	F. Compliance Assurance Monitoring (CAM) Reporting.....	19
VI.	Rubber Extruding/Calendering Equipment Requirements.....	20
VII.	Curing and Finishing Equipment Requirements.....	20
	A. Curing and Finishing Limitations	20
	B. Curing and Finishing Monitoring	21
	C. Curing and Finishing Recordkeeping	21
VIII.	Facility Wide Conditions (including solvent usage).....	22
	A. Facility Wide Limitations	22
	B. Facility Wide Monitoring and Recordkeeping	23
IX.	TIRE MACT Conditions.....	23
	A. Tire MACT Limitations.....	23
	B. Tire MACT Continuous Compliance Requirements	24
	C. Tire MACT Notifications, Reporting, and Recordkeeping	24
	D. Tire MACT Additional Requirements (General Provisions).....	25
X.	Supporting Equipment Requirements	25
	A. Supporting Equipment Limitations.....	25

B.	Supporting Equipment Maintenance/Operating Procedures.....	26
C.	Supporting Equipment Monitoring.....	26
D.	Supporting Equipment Recordkeeping.....	27
E.	Supporting Equipment Testing.....	27
XI.	Insignificant Emission Units	28
XII.	Permit Shield & Inapplicable Requirements	29
XIII.	General Conditions	30
A.	Enforceability.....	30
B.	Permit Expiration.....	30
C.	Permit Invalidation.....	31
D.	Recordkeeping and Reporting.....	31
E.	Annual Compliance Certification.....	32
F.	Permit Deviation Reporting.....	33
G.	Failure/Malfunction Reporting.....	33
H.	Severability.....	33
I.	Duty to Comply.....	34
J.	Need to Halt or Reduce Activity not a Defense.....	34
K.	Permit Modification.....	34
L.	Property Rights.....	34
M.	Duty to Submit Information.....	34
N.	Duty to Pay Permit Fees.....	35
O.	Fugitive Dust Emission Standards.....	35
P.	Startup, Shutdown, and Malfunction.....	35
Q.	Alternative Operating Scenarios.....	36
R.	Inspection and Entry Requirements.....	36
S.	Reopening For Cause.....	36
T.	Permit Availability.....	37
U.	Transfer of Permits.....	37
V.	Malfunction as an Affirmative Defense.....	37
W.	Permit Revocation or Termination for Cause.....	38
X.	Duty to Supplement or Correct Application.....	38
Y.	Stratospheric Ozone Protection.....	39
Z.	Accidental Release Prevention.....	39
AA.	Changes to Permits for Emissions Trading.....	39
BB.	Emissions Trading.....	39

I. Facility Information

Permittee

The Goodyear Tire and Rubber Company
1901 Goodyear Boulevard
Danville, VA

Responsible Official

Terry Tennyson
Plant Manager

Facility

The Goodyear Tire and Rubber Company
1901 Goodyear Boulevard
Danville, VA 24541

Contact Person

Chris Bagley
Environmental Coordinator
(434) 791-9170

County-Plant Identification Number: 51-590 -00013

Facility Description: NAICS Code – 326211 – Manufacturing of rubber tires for trucks and aircraft.

II. Emission Units

Equipment to be operated consists of:

Emission Unit ID	Emission Unit Description	Pollution Control Device (PCD) Description	PCD ID	Stack ID	Pollutant Controlled	Applicable Permit Date
Fuel Burning Equipment						
EU 035	123 MMBtu/hr B&W Model 22266 (1966)	-	-	EP-047, EP-049	-	
EU 036	123 MMBtu/hr B&W Model 22265 (1966)	-	-	EP-047, EP-049	-	
EU 037	123 MMBtu/hr B&W Model 22883 (1968)	-	-	EP-048, EP-049	-	
EU 038	47.5 MMBtu/hr E Keeler Model DS-40 (1981)	-	-	EP-048, EP-049	-	5/28/81, as amended 4/11/89 & 9/6/00
Receiving Equipment						
EU 042	Carbon Black Transfer System (1967)	enclosure & bin vent filters	-		PM	
Rubber Mixing Equipment						
EU 001	Banbury Mixer #1 (includes dump sink, airveyor, roller die, slurry dip, take-away conveyor, festoon, cooler conveyor, and wig wag)	baghouse-dump sink	DSCD1	DC-VH71	PM	9/4/02
		Baghouse ¹	BBDC1	DC-VH72		
		-	-	EP-002		
EU 002	Banbury Mixer #2 (includes dump sink, airveyor, pelletizer, slurry dip, take-away conveyor, shaker cooler units 1 & 2, and finished pellet conveyor)	baghouse-dump sink	DSCD1	DC-VH71	PM	9/4/02
		baghouse	BBDC2	DC-VJ71		
		cyclone-shaker cooler 1 & 2	CL-01	EF-VL131		
		-	-	EP-003, EP-003R		
EU 003	Banbury Mixer #3 (includes dump sink, airveyor, pelletizer, slurry dip, take-away conveyor, shaker cooler units 1 & 2, and finished pellet conveyor)	baghouse-dump sink	DSCD1	DC-VH71	PM	9/4/02
		baghouse	BBDC3	DC-VK71		
		cyclone-shaker cooler 1 & 2	CL-02	EF-VM131		
		-	-	EP-005, EP-005R		
EU 004	Banbury Mixer #4 (includes dump sink, airveyor, drop mill, slurry dip, take-away conveyor, festoon, and wig wag)	baghouse	DSCD1	DC-VH71	PM	9/4/02
		baghouse	BBDC4	EP-007		
		-	-	EP-006		

Emission Unit ID	Emission Unit Description	Pollution Control Device (PCD) Description	PCD ID	Stack ID	Pollutant Controlled	Applicable Permit Date
EU 005	Banbury Mixer #5 (includes dump sink, airveyor, roller die, slurry dip, take-away conveyor, festoon, chiller rack, and wig wag)	baghouse-dump sink	DSCD2	DC-VR71	PM	9/4/02
		baghouse	BBDC5	DC-VV61		
		-	-	EP-009		
EU 006	Banbury Mixer #6 (includes dump sink, airveyor, roller die, slurry dip, take-away conveyor, festoon, and wig wag)	baghouse-dump sink	DSCD2	DC-VR-71	PM	9/4/02
		baghouse	BBDC6	EP-014		
		-	-	EP-013		
EU 007	Banbury Mixer #7 (includes drop mill, take-away mill, take-away conveyors 1 & 2, chiller rack, slurry dip, and wigwag)	baghouse	BBDC7	DC-VU/E21	PM	9/4/02
		scrubber-drop mill and take-away mill	BB7SCR	SCRB-VU/E42		
EU 008	Banbury Mixer #8 (includes drop mill, take-away mill, slurry dip, take-away conveyors 1 & 2, chiller rack, cooler conveyor, and wig wag)	baghouse	BBDC8	DC-W/E31	PM	9/4/02
		scrubber-drop mill and take-away mill	BB8SCR	SCRB-W/E31		
EU 009	Banbury Mixer #9 (includes roller die, slurry dip, take-away conveyors 1 & 2, chiller rack, festoon, and wig wag)	baghouse	BBDC9	DC-VBB21	PM	9/4/02
		scrubber-roller die	BB9SCR	SCRB-VBB51		
Calendering Equipment						
EU 026	Fabric Calender	-	-	-	-	
EU 027	Gum Calender	-	-	-	-	
EU 028	Unisteel Calender	-	-	-	-	
EU 029	#1 Four Roll Gum Calender	-	-	-	-	
EU 030	#2 Four Roll Gum Calender	-	-	-	-	
EU 031	#3 Four Roll Gum Calender	-	-	-	-	
EU 033	Contour Calender	-	-	-	-	
EU 034	Two Roll Gum Calender	-	-	-	-	

Emission Unit ID	Emission Unit Description	Pollution Control Device (PCD) Description	PCD ID	Stack ID	Pollutant Controlled	Applicable Permit Date
Extruding Equipment						
DDM1	DDM1	-	-	-	-	9/4/02
DDM2	DDM2	-	-	-	-	9/4/02
EU 010	#1 Extruder Line	-	-	-	-	
EU 011	End Cementing Station, #1 Extruder Line	-	-	-	-	
EU 059	Inking Station, #1 Extruder Line	-	-	-	-	
EU 012	#2 Extruder Line	-	-	-	-	
EU 013	End Cementing Station, #2 Extruder Line	-	-	-	-	
EU 014	Inking Station, #2 Extruder Line	-	-	-	-	
EU 015	#3 Extruder Line	-	-	-	-	
EU 016	End Cementing Station, #3 Extruder Line	-	-	-	-	
EU 016a	Inking Station, #3 Extruder Line	-	-	-	-	-
EU 017	#4 Extruder Line	-	-	-	-	
EU 018	End Cementing Station, #4 Extruder Line	-	-	-	-	
EU 018a	Inking Station, #4 Extruder Line	-	-	-	-	
EU 019	#5 Extruder Line	-	-	-	-	
EU 020	End Cementing Station, #5 Extruder Line	-	-	-	-	
EU 021	Inking Station, #5 Extruder Line	-	-	-	-	
EU 022	#6 Extruder Line	-	-	-	-	
EU 023	End Cementing Station, #6 Extruder Line	-	-	-	-	
EU 024	Inking Station, #6 Extruder Line	-	-	-	-	
EU 025	#7 Extruder Line	-	-	-	-	
EU 060	Inking Station, #7 Extruder Line	-	-	-	-	
EU 032	12 Bead Extruders	-	-	-	-	

Emission Unit ID	Emission Unit Description	Pollution Control Device (PCD) Description	PCD ID	Stack ID	Pollutant Controlled	Applicable Permit Date
Curing and Finishing Equipment						
EU 050	231 Tire Presses, Combined	-	-	-	-	9/4/02
EU 150	12 New Tire Curing Presses	-	-	-	-	9/4/02
EU 150-A	1 New Tire Curing Press	-	-	-	-	NA (Note 2)
EU 044- EU 046	3 Spot-Au-Matic Units	Vacuum Solvent Recovery	VAC-SOL	EP054- EP056	VOC & HAP	9/4/02
Facility-Wide Solvent Usage						
EU 051	Facility-Wide Solvent Usage (Original Tire Building Machines and Repair Operations)	-	-	-	-	9/4/02
EU 151	NG Tire Building Machines	-	-	-	-	9/4/02
AR 01	Aircraft Tire Building Machines (New)					9/4/02
AR 02	Aircraft Tire Building Machine (1985)	-	-	-	-	
Supporting Equipment						
RG-1	Collmann Run-out Grinder	Wet Rotoclone	RGCD-1	RGCD-1	PM, PM-10	6/15/2004

Notes:

1. For each associated Banbury mixer, emission points controlled by BBDC1-BBDC9 include: charging door, chute and gate exhaust, black feed vent.
2. See no-permit-required determination letter dated 9/25/06

III. Fuel Burning Equipment Requirements

A. Fuel Burning Equipment Emission Unit Limitations

1. The approved fuels for each B & W boiler (EU035, EU036, EU037) are natural gas and fuel oil. A change in the fuels may require a permit to modify and operate.
(9 VAC 5-80-110)
2. Emissions from the operation of each B & W boiler (EU035, EU036, EU037) shall not exceed the limits specified below:

Particulate Matter	0.24 lb/MMBtu	(9 VAC 5-40-900)
Sulfur Dioxide	324.7 lbs/hr	(9 VAC 5-40-930)
3. Visible Emissions from each of the boiler stacks (EP-047, EP-048 and EP-049) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60 percent opacity. During those periods when emissions from the Keeler boiler (EU 038) are being vented to either EP-048 or EP-049, visible emissions from that stack shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity.
(9 VAC 5-40-80, 9 VAC 5-50-80 and 9 VAC 5-80-110)
4. The approved fuels for the Keeler boiler (EU038) are natural gas, fuel oil, and used oil as specified in Condition III.A.6. A change in the fuels may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 9 of 5/28/81 Permit, as amended 4/11/89 and 9/6/00)
5. The maximum sulfur content of the oil to be burned in the Keeler boiler (EU038) shall not exceed 2.36 percent by weight per shipment.
(9 VAC 5-80-110 and Condition 3 of 5/28/81 permit, as amended 4/11/89 and 9/6/00)
6. Used oil approved for burning in the Keeler boiler (EU038) is on-specification used oil as defined by the following limits in Title 40, CFR, Part 266, Subpart E, Section 266.40 and TSCA/Title 40, CFR, Part 761:
 - a. PCB 49 ppm, maximum
 - b. Arsenic 5 ppm, maximum
 - c. Cadmium 2 ppm, maximum
 - d. Chromium 10 ppm, maximum
 - e. Halogen (total) 1,000 ppm, maximum
 - f. Lead 100 ppm, maximum
 - g. Flashpoint 100°F, minimum

Analyses shall be performed on used oil burned at this facility on an annual basis.

(9 VAC 5-80-110 and Condition 13 of 5/28/81 Permit, as amended 4/11/89 and 9/6/00)

7. The throughput of fuel in the Keeler boiler (EU038) shall be limited such that each of the following equations are satisfied monthly for each consecutive 12 month period:

- a. For NO_x emissions:

$$\frac{(55lb \times A) + (20lb \times B) + (19lb \times C) + (100lb \times D)}{2000lb / ton} \leq 39.0tons$$

where:

A = Annual consumption of residual oil, in units of thousand gallons burned, calculated monthly as the sum of each consecutive 12 month period

B = Annual consumption of distillate oil, in units of thousand gallons burned, calculated monthly as the sum of each consecutive 12 month period

C = Annual consumption of used oil, in units of thousand gallons burned, calculated monthly as the sum of each consecutive 12 month period, and

D = Annual consumption of natural gas, in units of million cubic feet burned, calculated monthly as the sum of each consecutive 12 month period, and:

- b. For SO₂ emissions:

$$\frac{(157lb \times S \times A) + (142lb \times S \times B) + (147lb \times S \times C) + (0.6lb \times D)}{2000lb / ton} \leq 39.7tons$$

where

S = Fuel sulfur content, in percent by weight. For example, if sulfur content is 2.36%, S = 2.36. S may be calculated as a weighted percentage for all fuel oil shipments of a given type (distillate or non-distillate), or may represent the maximum sulfur content of all shipments of that fuel type.

A = Annual consumption of residual oil, in units of thousand gallons burned, calculated monthly as the sum of each consecutive 12 month period

B = Annual consumption of distillate oil, in units of thousand gallons burned, calculated monthly as the sum of each consecutive 12 month period

C = Annual consumption of used oil, in units of thousand gallons burned, calculated monthly as the sum of each consecutive 12 month period, and

D = Annual consumption of natural gas, in units of million cubic feet burned, calculated monthly as the sum of each consecutive 12 month period

For purposes of demonstrating compliance with this condition, distillate oil is defined as oil which meets ASTM specifications for numbers 1 or 2 fuel oil. The above equations must be satisfied monthly for each consecutive 12 month period.

(9 VAC 5-80-110 and Condition 3 of 5/28/81 permit, as amended 4/11/89 and 9/6/00)

8. Emissions from the operation of the Keeler boiler (EU038) shall not exceed the limits specified below:

PM/PM ₁₀	8.57 lbs/hr	3.73 tons/yr	(9 VAC 5-50-260)
Sulfur Dioxide	119.44 lbs/hr	39.7 tons/yr	(9 VAC 5-50-260)
Nitrogen Oxides (as NO ₂)	19.34 lbs/hr	39.0 tons/yr	(9 VAC 5-50-260)
Volatile Organic Compounds	0.35 lbs/hr	1.84 tons/yr	(9 VAC 5-50-260)
Carbon Monoxide	2.12 lb/hr	9.30 tons/yr	(9 VAC 5-50-260)

Annual emissions shall be calculated monthly as the sum of each consecutive 12 month period.

(9 VAC 5-80-110, and Conditions 2, 3, 4, 5, and 6 of 5/28/81 Permit, as amended 4/11/89 and 9/6/00)

B. Fuel Burning Equipment Maintenance/Operating Procedures

1. Boiler emissions shall be controlled by proper operation and maintenance. Boiler operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum.
(9 VAC 5-80-110)
2. The permittee shall develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance with respect to each boiler in order to minimize the duration and frequency of excess emissions.
(9 VAC 5-80-110 and 9 VAC 5-170-160)

C. Fuel Burning Equipment Monitoring

1. At least one time per week an observation for the presence of visible emissions from each boiler stack shall be made. If visible emissions are observed the permittee shall:
 - a. take timely corrective action and re-conduct the observation for the presence of visible emissions to ensure that the boiler has resumed operation with no visible emissions, or
 - b. conduct a visible emission evaluation (VEE) in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six minutes, to assure visible emissions from the boiler are less than or equal to 20 percent opacity. If any of the 15-second observations exceeds 20% opacity, the observation period shall continue until a total of 60 minutes of observation have been completed.

Timely corrective action shall be taken, if necessary, such that the affected boiler resumes operation within 20% opacity.

- c. If twelve (12) consecutive weekly visible emissions inspections show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Weeks in which the equipment does not operate do not factor into the twelve (12) consecutive weekly inspections. Anytime the monthly visible emissions inspections show visible emissions, any week a boiler is being fired on fuel oil, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a boiler observation log to demonstrate compliance. The log shall include the date and time of the observations, name of the observer, whether or not there were visible emissions, any VEE recordings and any necessary corrective action.

(9 VAC 5-80-110 E)

2. At a frequency not to exceed once every five years, the permittee shall conduct a stack test for [particulate matter](#) from at least one B&W boiler (EU035-EU037) to demonstrate compliance with the emission limit in Condition III.A.2 of this permit. The test shall be conducted while the boiler is operating on fuel oil with sulfur content representative of normal operation. In the event boilers EU035-EU038 have combined fuel oil throughput of less than 10 million gallons for every consecutive 12 month period during the five year term of this permit, this requirement is waived. In the event boilers EU035-EU038 have combined fuel oil throughput of greater than or equal to 10 million gallons for a consecutive 12 month period during the term of this permit, the particulate matter test shall be performed within 180 days after the end of the calendar month during which the 10 million gallon threshold was met or exceeded. Unless otherwise requested by the South Central Regional Office, performance testing required by this condition shall not be repeated for a given boiler until all other B&W boilers have been tested. The test shall be conducted and reported and data reduced as set forth in 9 VAC 5-40-30 or 9 VAC 5-50-30 as applicable. The details of the tests shall be arranged with the South Central Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. Two copies of the test results shall be submitted to the South Central Regional Office within 60 days after test completion and shall conform to the test report format enclosed with this permit.

(9 VAC 5-80-110 and 9 VAC 5-40-30)

D. Fuel Burning Equipment Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

- a. results of the weekly opacity observation of each boiler stack, along with any corrective actions, and
- b. the annual combustion of gas (in million cubic feet) and fuel oil (in thousand gallons) burned in the B & W boilers (EU 035, EU 036, and EU 037, combined), calculated monthly as the sum of each consecutive 12-month period.
- c. the annual combustion of gas (in million cubic feet), fuel oil (in thousand gallons), and used oil (in thousand gallons) burned in the Keeler boiler (EU 038), calculated monthly as the sum of each consecutive 12-month period.
- d. fuel analysis records showing the actual sulfur content of each shipment of fuel oil burned in the Keeler boiler (EU 038).
- e. annual fuel analysis records of the used oil burned in the Keeler boiler, showing the flashpoint (in degrees Fahrenheit) of the oil and the content (in ppm) of PCB, arsenic, cadmium, chromium, lead, and total halogens.
- f. calculations sufficient to demonstrate compliance with the fuel throughput limits in Condition III.A.7.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-40-50, 9 VAC 5-50-50 and 9 VAC 5-80-110)

2. The permittee shall maintain records of the required training for boiler operations including a statement of time, place and nature of the training provided. The permittee shall have available good written operating procedures and a maintenance schedule for the boiler(s). These procedures shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept on site and made available for inspection by the DEQ.
(9 VAC 5-80-110)

E. Fuel Burning Equipment Reporting

1. The permittee shall submit quarterly reports of the fuel oil and used oil burned in the Keeler boiler to the South Central Regional Office, within 30 days after the end of each calendar quarter. Reports shall include, at a minimum, the fuel oil consumption and sulfur content of the oil burned.
(9 VAC 5-80-110 and Condition 3 of 5/28/81 Permit, as amended 4/11/89 and 9/6/00)
2. On or before January 31 of each year, the permittee shall submit annual fuel analysis records of the used oil burned in the Keeler boiler during the previous year. The fuel analysis records shall provide, as a minimum, the flashpoint (in degrees Fahrenheit) of the fuel and the content (in ppm) of PCB, arsenic, cadmium, chromium, lead, and total halogens.

(9 VAC 5-80-110 and Condition 13 of 5/28/81 Permit, as amended 4/11/89 and 9/6/00)

IV. Receiving Equipment Requirements

A. Receiving Limitations

1. Particulate emissions from the **carbon black transfer system** shall be controlled by enclosure and bin vent filters. Each filter shall be provided with adequate access for inspection and shall be maintained by the permittee such that it is in proper working order at all times.
(9 VAC 5-40-20)
2. Particulate emissions from the **carbon black transfer system** shall not exceed 11.7 pounds per hour.
(9 VAC 5-40-260)
3. Visible Emissions from the **carbon black transfer system** shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60 percent opacity. Visible emissions from the **carbon black vacuum system** shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity.
(9 VAC 5-40-80, 9 VAC 5-50-80 and 9 VAC 5-80-110)

B. Receiving Maintenance/Operating Procedures

The permittee shall develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance with respect to air pollution control equipment and process equipment which affects air emissions in order to minimize the duration and frequency of excess emissions.

(9 VAC 5-80-110 and 9 VAC 5-40-20E)

C. Receiving Monitoring

At least one time per week an observation for the presence of visible emissions from the carbon black transfer system shall be made. If visible emissions are observed the permittee shall:

1. take timely corrective action and re-conduct the observation for the presence of visible emissions to ensure that the carbon black transfer system has resumed operation with no visible emissions, or
2. conduct a visible emission evaluation (VEE) in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six minutes, to assure visible emissions from the carbon black transfer system are less than or equal to 20 percent opacity. If any of the 15-second observations exceeds 20% opacity, the observation

period shall continue until a total of 60 minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the carbon black transfer system resumes operation within 20% opacity.

3. If twelve (12) consecutive weekly visible emissions inspections show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Weeks in which the equipment does not operate do not factor into the twelve (12) consecutive weekly inspections. Anytime the monthly visible emissions inspections show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain an observation log to demonstrate compliance. The log shall include the date and time of the observations, name of the observer, whether or not there were visible emissions, any VEE recordings and any necessary corrective action. (9 VAC 5-80-110 E)

D. Receiving Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to, the results of the weekly opacity observation of the carbon black transfer system, along with any corrective actions taken. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-40-50, 9 VAC 5-50-50, and 9 VAC 5-80-110)

V. Mixing Equipment Requirements

A. Mixing Limitations

1. Particulate emissions from each Banbury unit shall be controlled by a fabric filter. Specific components to be controlled are the charging door, chute and gate exhaust, and black feed vent associated with each Banbury mixer (EU 001-EU 009) and the dump sinks associated with Banbury Mixers 1-6 (EU 001- EU 006).

Each fabric filter shall be provided with adequate access for inspection and equipped with a device to continuously measure the differential pressure drop across the fabric filter. Each monitoring device shall be installed, maintained and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the Banbury mixer is operating.

(9 VAC 5-50-20, 9 VAC 5-80-110, and Condition 4 of 9/4/02 Permit)

2. Particulate emissions from the shaker coolers associated with Banbury Mixers 2 and 3 (CL01 and CL02) shall be controlled by a cyclone. Each cyclone shall be provided with adequate access for inspection.
(9 VAC 5-40-20)
3. Particulate emissions from the take-away conveyors serving Banbury mixers 7, 8, and 9 shall be controlled by a scrubber. Each scrubber shall be provided with adequate access for inspection and equipped with a device to continuously measure the differential pressure through the scrubber. Each monitoring device shall be installed, maintained and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the Banbury mixer is operating.
(9 VAC 5-80-110 and Condition 5 of 9/4/02 Permit)
4. The Goodyear Danville facility shall produce no more than 100,416 tons of pelletized rubber compounds per year in Banbury mixers 2 and 3 (combined), calculated monthly as the sum of each consecutive 12 month period.
(9 VAC 5-80-110 and Condition 8 of 9/4/02 Permit)
5. The permittee shall not modify the dust collection system associated with the Banbury mixers (emission points currently controlled by fabric filters BBDC1 - BBDC9) in a manner that results in an increase in total volume of exhaust air.
(9 VAC 5-80-110 and Condition 9 of 9/4/02 Permit)
6. Particulate emissions from each fabric filter associated with a Banbury mixer (BBDC1-BBDC9) shall not exceed 0.01 grains/ dry standard cubic foot of exhaust air.
(9 VAC 5-80-110 and Condition 10 of 9/4/02 Permit)
7. Visible emissions from each emission point associated with a Banbury mixer (as indicated below) shall not exceed the six-minute average opacity limit indicated below, as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).

Emission Point	Emission Point ID	VE Limit
Fabric Filters serving Banbury Units 1-9 (BBDC1-BBDC9)	DC-VH72, DC-VJ71, DC-VK71, EP-007, DC-VV61, EP-014, DC-VU/E21, DC-W/E31, DC-VBB21	5% opacity
Fabric Filters serving Dump Sinks 1-4 & 5-6 (DSDC1 & DSDC2)	DC-VH71 DC-VR71	5% opacity
Scrubbers serving Banbury Units 7, 8, & 9 (BB7SCR, BB8SCR, BB9SCR)	SCRB-VU/E42, SCRB-W/E31, SCRB-VBB51	5% opacity
Cyclones serving Shaker Coolers 1 & 2 (CL01 & CL02)	EF-VL131 EF-VM131	20% opacity ^a
Other Emission Points	EP-002, EP-003, EP-003R, EP-005, EP-005R, EP-006, EP-009, EP-013	20% opacity ^b

^a Except for one six-minute period in any one hour in which visible emissions shall not exceed 60% opacity.

^b Except for one six-minute period in any one hour in which visible emissions shall not exceed 30% opacity.

Visible emissions shall be determined by EPA Method 9 (reference 40 CFR 60, Appendix A).

(9 VAC 5-40-80, 9 VAC 5-50-80, 9 VAC 5-80-110, and Condition 16 of 9/4/02 Permit)

8. VOC emissions from all Banbury mixers combined (EU001-EU009) shall not exceed 189 tons per year, calculated monthly as the sum of each consecutive 12 month period. Compliance with the emission limit may be determined as follows:

$$\text{VOC}_{\text{MIXING}} = \text{E}_{\text{MIXING}} + (\text{EF}_{\text{MIXING}}) (\text{Quantity of rubber mixed, in tons})$$

Where:

$\text{VOC}_{\text{MIXING}}$ = VOC Emissions (in tons) from Banbury mixer operation

E_{MIXING} = Ethanol emissions (in tons), calculated as specified in Condition 9, below

$\text{EF}_{\text{MIXING}}$ = DEQ-approved emission factor for non-ethanol VOC from mixing, in lb/ton of rubber mixed

(9 VAC 5-80-110 and Condition 11 of 9/4/02 Permit)

9. Ethanol emissions from each Banbury mixer shall not exceed 21.0 tons per year, calculated monthly as the sum of each consecutive 12 month period. Compliance with the emission limit may be determined as follows:

$$\text{E}_{\text{MIXING}} = \sum \text{L}_i \text{R}_i \text{C}_i$$

Where:

E_{MIXING} = Ethanol Emissions (in tons) from Banbury mixer operation

L_i = Liberation constant for the coupling agent i

R_i = Reaction constant for the coupling agent i

C_i = Quantity (in tons) of coupling agent i

(9 VAC 5-80-110, 9 VAC 5-50-260 and Condition 12 of 9/4/02 Permit)

10. Emissions from the operation of each shaker cooler associated with Banbury Mixers 2 and 3 (CL01 and CL02) shall not exceed the limits specified below:

Particulate Matter 13.2 lbs/hr

(9 VAC 5-80-110, and 9 VAC 5-40-260)

B. Mixing Maintenance/Operating Procedures

The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:

1. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
2. Maintain an inventory of spare parts.

3. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
4. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.

(9 VAC 5-50-20 E and Condition 25 of 9/4/02 Permit)

C. Mixing Monitoring

1. At least one time per week an observation for the presence of visible emissions from each mixing line stack (each emission point identified in Condition V.A.7 except CL01 and CL02) shall be made. If visible emissions are observed the permittee shall:
 - a. take timely corrective action and re-conduct the observation for the presence of visible emissions to ensure that the mixer has resumed operation with no visible emissions, or
 - b. conduct a visible emission evaluation (VEE) in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six minutes, to assure visible emissions from the affected emission point are less than or equal to the respective value listed in Condition V.A.7. If any of the 15-second observations exceeds the respective value, the observation period shall continue until a total of 60 minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the affected unit (mixer or control device) resumes operation within the respective opacity value.
 - c. If twelve (12) consecutive weekly visible emissions inspections show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Weeks in which the equipment does not operate do not factor into the twelve (12) consecutive weekly inspections. Anytime the monthly visible emissions inspections show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain an observation log to demonstrate compliance. The log shall include the date and time of the observations, name of the observer, whether or not there were visible emissions, any VEE recordings and any necessary corrective action.

(9 VAC 5-80-110 E)

2. At a frequency not to exceed once every five years, the permittee shall conduct a stack test for PM and PM-10 from at least one fabric filter controlling emissions from

a Banbury mixer (BBDC1-BBDC9) to demonstrate compliance with the emission limit in Condition V.A.6 of this permit. Unless otherwise requested by the South Central Regional Office, performance testing required by this condition shall not be repeated for a given fabric filter until all other fabric filters have been tested. The test shall be conducted and reported and data reduced as set forth in 9 VAC 5-40-30 or 9 VAC 5-50-30 as applicable. The details of the tests shall be arranged with the South Central Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. Two copies of the test results shall be submitted to the South Central Regional Office within 60 days after test completion and shall conform to the test report format enclosed with this permit.

(9 VAC 5-80-110, 9 VAC 5-40-30, and 9 VAC 5-50-30)

3. **Compliance Assurance Monitoring (CAM)** - The permittee shall implement an approved Compliance Assurance Monitoring (CAM) Plan to monitor cyclones (CL01 and CL02) controlling particulate matter and PM10 from the Banbury Mixer # 2 shaker cooler and the Banbury Mixer # 3 shaker cooler. The approved monitoring plan shall be the attached CAM Plan (Attachment A) or the most recent revision to this plan that has been: (1) developed and approved pursuant to 40 CFR 64.7(e) and Condition V.C.10; (2) revised pursuant to a Quality Improvement Plan in accordance with 40 CFR 64.8 and Condition V.C.11; or (3) otherwise approved by the DEQ conforming with Condition V.C.4 of this section, including, but not limited to, changes initiated by DEQ.

(9 VAC 5-80-110 E and 40 CFR 64.6(c))

4. **Compliance Assurance Monitoring (CAM)** - Each monitoring approach shall be designed and implemented in compliance with 40 CFR 64.3(b) or (d). The approved CAM Plan shall include, at a minimum, the following information:

- a. Indicator;
- b. Measurement Approach;
- c. Indicator Range or Condition(s) for Range Development ; and
- d. The following performance criteria:
 - i. Data Representativeness;
 - ii. Verification of Operational Status
 - iii. QA/QC Practices and Criteria
 - iv. Monitoring Frequency
 - v. Data Collection Procedures
 - vi. Averaging Period

Changes to the CAM Plan pertaining to the information in this condition require prior approval by the DEQ and may require public participation according to the requirements of 9 VAC 5-80-230.

(9 VAC 5-80-110 E and 40 CFR 64.6(c))

5. **Compliance Assurance Monitoring (CAM)** - The permittee shall conduct the monitoring and fulfill the other obligations specified in 40 CFR 64.7 through 40 CFR 64.9.
(9 VAC 5-80-110 E and 40 CFR 64.6(c))
6. **Compliance Assurance Monitoring (CAM)** - At all times, the permittee shall maintain the monitoring equipment, including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
(9 VAC 5-80-110 E and 40 CFR 64.7(b))
7. **Compliance Assurance Monitoring (CAM)** - Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the Banbury Mixer # 2 shaker cooler or the Banbury Mixer # 3 shaker cooler is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of compliance assurance monitoring, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by inadequate maintenance or improper operation are not malfunctions.
(9 VAC 5-80-110 E and 40 CFR 64.7(c))
8. **Compliance Assurance Monitoring (CAM)** - Upon detecting an excursion or exceedance, the permittee shall restore operation of the Banbury Mixer # 2 shaker cooler or the Banbury Mixer # 3 shaker cooler, as applicable, (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup and shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator, designated condition, or below the applicable emission limitation or standard, as applicable.
(9 VAC 5-80-110 E and 40 CFR 64.7(d)(1))
9. **Compliance Assurance Monitoring (CAM)** - Determination that acceptable procedures were used in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

(9 VAC 5-80-110 E and 40 CFR 64.7(d)(2))

10. **Compliance Assurance Monitoring (CAM)** - If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly (in accordance with Condition XIII.F) notify the Director, South Central Regional Office and submit a revised CAM Plan for approval to the Director, South Central Regional Office to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
(9 VAC 5-80-110 E, 40 CFR 64.7(e) and 40 CFR 64.6(c))

11. **Compliance Assurance Monitoring (CAM)** - If the number of exceedances or excursions for the Banbury Mixer # 2 shaker cooler or the Banbury Mixer # 3 shaker cooler exceeds the Quality Improvement Plan (QIP) Threshold as defined in the approved monitoring plan as defined in Condition V.C.3 , or as otherwise required by the DEQ in accordance with review conducted under 40 CFR 64.7(d)(2) , the permittee shall develop, implement and maintain a QIP in accordance with 40 CFR 64.8. If a QIP is required, the permittee shall have it available for inspection at the permitted facility. In the event that changes are made to the CAM Plan as a result of a QIP, the permittee shall record the revision date on Page 1 of the CAM Plan and monitor in accordance with the most recent CAM Plan. The permittee shall submit a copy of the most recent CAM Plan to the Director, South Central Region within 30 days of the revision date. For the purposes of this condition, the most recent version of the CAM Plan shall be based on the date as shown on page 1 of the CAM Plan.
(9 VAC 5-80-110 E and 40 CFR 64.8(a) and (b))

12. **Compliance Assurance Monitoring (CAM)** - Monitoring imposed under 40 CFR Part 64 shall not excuse the permittee from complying with any existing requirements under federal, state, or local law, or any other applicable requirement under the Act, as described in 40 CFR 64.10.
(9 VAC 5-80-110 and 40 CFR 64.10)

D. Mixing Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:
 - a. results of the weekly opacity observation of each mixing line stack (as identified in Condition V.A.7) along with any corrective actions,

- b. annual production of pelletized rubber compounds manufactured in Banbury mixers number 2 and 3 (in tons), calculated monthly as the sum of each consecutive 12 month period,
- c. for each Banbury mixer, throughput and manufacturing specification sheets for each formulation containing coupling agent. Specification sheets shall include the identity and quantity of each coupling agent and the maximum mixing temperature for the formulation,
- d. records of maintenance or construction activities performed on the dust collection system for the Banbury mixers (emission points currently controlled by fabric filters BBDC1 - BBDC9), sufficient to demonstrate that there has been no increase in the total air handling capacity of the dust collection system,
- e. monthly and annual VOC emission calculations to verify compliance with the VOC emission limitations in Condition V.A.8. Annual emissions shall be calculated monthly as the sum of each consecutive 12 month period,
- f. monthly and annual ethanol emission calculations to verify compliance with the ethanol emission limitations in Condition V.A.9. Annual emissions shall be calculated monthly as the sum of each consecutive 12 month period, and
- g. test report for the stack test required by Condition V.C.2.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110, and Condition 18 of 9/4/02 Permit)

2. **Compliance Assurance Monitoring (CAM) Recordkeeping-** The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan (QIP) required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan (QIP), and other supporting information required to be maintained under 40 CFR Part 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

(9 VAC 5-80-110 F and 40 CFR 64.9(b))

E. Mixing Testing

The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.

(9 VAC 5-50-30, 9 VAC 5-80-110, and Condition 19 of 9/4/02 Permit)

F. Compliance Assurance Monitoring (CAM) Reporting

The permittee shall submit CAM reports as part of the Title V semi-annual monitoring reports required by General Condition XIII.D.3 of this permit to the Director, South Central Regional Office. Such reports shall include at a minimum:

1. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
2. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
3. A description of the actions taken to implement a quality improvement plan (QIP) during the reporting period as specified in 40 CFR 64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

(9 VAC 5-80-110 F and 40 CFR 64.9(a))

VI. Rubber Extruding/Calendering Equipment Requirements

Extruding/Calendering Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to calculate emissions from the calendering and extruding equipment (including DDM machines). The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to, the quantity of rubber extruded and calendered, calculated monthly as the sum of each consecutive 12-month period. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50)

VII. Curing and Finishing Equipment Requirements

A. Curing and Finishing Limitations

1. Uncontrolled non-ethanol VOC emissions from curing shall not exceed 86.0 tons per year, calculated monthly as the sum of each consecutive 12 month period.
(9 VAC 5-80-110, and Condition 7 of 9/4/02 Permit)
2. Visible emissions from each exhaust stack associated with the new curing presses (EU150) shall not exceed 5 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-50-80, 9 VAC 5-80-110, and Condition 17 of 9/4/02 Permit)

3. VOC emissions from Spot-Au-Matic tire balance pad units shall be controlled by a solvent vacuum recovery system. The solvent vacuum recovery system shall be provided with adequate access for inspection.

(9 VAC 5-50-260, 9 VAC 5-80-110, and Condition 3 of 9/4/02 Permit)

B. Curing and Finishing Monitoring

At least one time per week a survey for visible emissions from the curing presses shall be conducted. The survey shall be conducted on the rooftop above the curing area, and shall include all stacks from the curing area. If visible emissions are observed from any stack, the permittee shall:

1. identify the curing press(es) responsible for the visible emissions, take timely corrective action, and re-conduct the observation for the presence of visible emissions to ensure that the affected curing press(es) have resumed operation with no visible emissions, or
2. conduct a visible emission evaluation (VEE) in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six minutes, to assure visible emissions from the curing operation are less than or equal to 5 percent opacity. If any of the 15-second observations exceeds 5% opacity, the observation period shall continue until a total of 60 minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the curing operation resumes within 5% opacity.
3. If twelve (12) consecutive weekly visible emissions inspections show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Weeks in which the equipment does not operate do not factor into the twelve (12) consecutive weekly inspections. Anytime the monthly visible emissions inspections show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for the curing area.

The permittee shall maintain an observation log to demonstrate compliance. The log shall include the date and time of the observations, name of the observer, whether or not there were visible emissions, any VEE recordings and any necessary corrective action.
(9 VAC 5-80-110 E)

C. Curing and Finishing Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

1. results of the weekly opacity observation of each curing stack, along with any corrective actions,

2. annual production of cured rubber compounds (in tons), calculated monthly as the sum of each consecutive 12 month period, and
3. monthly and annual VOC emission calculations to verify compliance with the VOC emission limitations in Condition VII.A.1. Annual emissions shall be calculated monthly as the sum of each consecutive 12 month period.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 and Condition 18 of 9/4/02 Permit)

VIII. Facility Wide Conditions (including solvent usage)

A. Facility Wide Limitations

1. Ethanol emissions from use of coupling agents throughout the facility shall not exceed 449 tons per year, calculated monthly as the sum of each consecutive 12 month period. Compliance with the emission limit may be determined as follows:

$$E_{\text{PLANTWIDE}} = \sum R_i C_i$$

Where:

$E_{\text{PLANTWIDE}}$ = Plantwide ethanol emissions, in tons per year

R_i = Reaction constant for the coupling agent i

C_i = Quantity (in tons) of coupling agent i

(9 VAC 5-80-110, 9 VAC 5-50-260 and Condition 13 of 9/4/02 Permit)

2. The permittee is limited to use of coupling agents approved in accordance with the following conditions:
 - a. ethanol emission limits in Conditions V.A.9 and VIII.A.1 are not exceeded,
 - b. the alternative formulations do not result in emissions of additional pollutants,
 - c. prior written approval of formulation usage and the coupling agent-specific liberation and reaction constants shall be obtained from the South Central Regional Office.

(9 VAC 5-80-110 and Condition 14 of 9/4/02 Permit)

3. VOC emissions from refresher solvent (including kanjine, isol, or alternative solvents) shall not exceed 3.6 pounds per ton of cured rubber throughput, calculated monthly as the average for each consecutive 12 month period.
(9 VAC 5-80-110, 9 VAC 5-50-260 and Condition 15 of 9/4/02 Permit)
4. Volatile organic compounds shall not be intentionally spilled, discarded to sewers, stored in open containers, or handled in any other manner that would result in

evaporation beyond that consistent with air pollution control practices for minimizing emissions.

(9 VAC 5-50-260, 9 VAC 5-80-110, and Condition 6 of 9/4/02 Permit)

B. Facility Wide Monitoring and Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

1. Annual consumption of each coupling agent used (in tons), calculated monthly as the sum of each consecutive 12 month period.
2. For each coupling agent used, liberation constant, reaction constant, and supporting information needed to derive the emission rate of ethanol from mixing and curing processes.
3. Material Safety Data Sheets (MSDS) or other vendor information showing VOC content, HAP content, water content, and solids content for each ink, adhesive, or refresher solvent used.
4. Emission calculations showing pounds of refresher solvent emitted per ton of cured rubber produced, calculated monthly as the average of each consecutive 12 month period.
5. Monthly and annual ethanol emission calculations to verify compliance with the ethanol emission limitations in Condition VIII.A.1. Annual emissions shall be calculated monthly as the sum of each consecutive 12 month period.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 and Condition 18 of 9/4/02 Permit)

IX. TIRE MACT Conditions

The facility shall be operated in accordance with all applicable requirements of 40 CFR Part 63 Subpart XXXX for Rubber Tire Manufacturing (including applicable General Provisions contained in 40 CFR Part 63 Subpart A). All terms used in conditions derived from 40 CFR 63 Subpart XXXX shall have the meaning as defined in 40 CFR 63.2, 40 CFR 63.5982 (b) (1), 40 CFR 63.5982 (b) (4), and 40 CFR 63.6015.

A. Tire MACT Limitations

1. The permittee shall comply with the emission limitations contained in this section no later than July 11, 2005.

(9 VAC 5-80-110 and 40 CFR 63.5983 (b))

2. As specified in 40 CFR 63.5984 and 40 CFR 63 Subpart XXXX, Table 1, the permittee shall meet one of the following emission limits:
 - a. Option 1 – HAP Constituent Option:
 - (1) Emissions of each HAP in 40 CFR Part 63 Subpart XXXX, Table 16 must not exceed 1,000 grams HAP per megagram (2 pounds per ton) of total cements and solvents used at the tire production affected source; and
 - (2) Emissions of each HAP not in 40 CFR Part 63 Subpart XXXX, Table 16 must not exceed 10,000 grams HAP per megagram (20 pounds per ton) of total cements and solvents used at the tire production affected source.
 - b. Option 2 – Production-based Option:

Emissions of HAP must not exceed 0.024 grams per megagram (0.00005 pounds per ton) of rubber used at the tire production affected source.

The permittee shall be in compliance with the emission limits at all times.
(9 VAC 5-80-110, 40 CFR 63.5990 (a), and 40 CFR 63 Subpart XXXX, Table 1)
3. The permittee shall meet the emission limits in Condition IX.A.2 using either of the following methods:
 - a. Purchase Alternative – Use only cements and solvents that, as purchased, contain no more HAP than allowed by the emission limits in Condition IX.A.2.a.
 - b. Monthly Average Alternative – Use cements and solvents in such a way that the monthly average HAP emissions do not exceed the emission limits in Condition IX.A.2.b.

In accordance with 40 CFR 63 Subpart XXXX, the permittee may elect to meet Condition IX.A.3.b with or without use of a control device. Should the permittee elect to use a control device, the permittee shall request that the permit be amended to include additional applicable provisions.
(9 VAC 5-80-110, 40 CFR 63.5990 (a), and 40 CFR 63 Subpart XXXX, Table 1)

B. Tire MACT Continuous Compliance Requirements

The permittee shall demonstrate continuous compliance in accordance with 40 CFR 63.6004 and 40 CFR Subpart XXXX, Table 10. Deviations from continuous compliance shall be reported as specified in 40 CFR Subpart XXXX, Table 15, and Condition XIII.D.3 of this permit.
(9 VAC 5-80-110, 40 CFR 63.6004, and 40 CFR 63 Subpart XXXX, Table 10)

C. Tire MACT Notifications, Reporting, and Recordkeeping

1. The permittee shall submit additional notifications as specified in 40 CFR 63.6009 and 40 CFR 63 Subpart XXXX, Table 6.
(9 VAC 5-80-110, 40 CFR 63.6009, and 40 CFR 63 Subpart XXXX, Table 6)
2. The permittee shall submit semiannual reports as specified in 40 CFR 63.6010 and 40 CFR 63 Subpart XXXX Table 15. Information required by these reports may be combined with the semiannual reports required by Condition XIII.D.3 of this permit.
(9 VAC 5-80-110, 40 CFR 63.6010, and 40 CFR 63 Subpart XXXX, Table 15)
3. The permittee shall maintain records as specified in 40 CFR 63.6011, 40 CFR 63.6012, and 40 CFR 63 Subpart XXXX, Table 9. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-50-50, 9 VAC 5-80-110, 40 CFR 63.6011, 40 CFR 63.6012, and 40 CFR 63 Subpart XXXX, Table 9)

D. Tire MACT Additional Requirements (General Provisions)

The permittee shall comply with applicable General Provisions pursuant to 40 CFR Part 63 Subpart A, including but not limited to those provisions identified as applicable in 40 CFR 63 Subpart XXXX, Table 17.

(9 VAC 5-80-110, 40 CFR 63 Subpart A, and 40 CFR 63 Subpart XXXX, Table 17)

X. Supporting Equipment Requirements

A. Supporting Equipment Limitations

1. Particulate matter emissions from the Collmann Run-out tire grinder shall be controlled by a rotoclone. The rotoclone shall be provided with adequate access for inspection and shall be in operation when the Collmann Run-out tire grinder is operating.
(9 VAC 5-80-110 and Condition 3 of 6/15/2004 Permit)
2. The Collmann Run-out tire grinder shall be equipped with devices to continuously measure the differential pressure drop across the rotoclone. The monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. The monitoring device shall be provided with adequate access for inspection and shall be in operation when the rotoclone is operating.
(9 VAC 5-80-110, and 6/15/2004 Permit)
3. Visible emissions from the Collmann Run-out tire grinder shall not exceed 10 percent opacity. Failure to meet the opacity limit because of the presence of water vapor shall not be a violation. This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-110 and Condition 5 of 6/15/2004 Permit)

4. Emissions from the operation of the Collmann Run-out tire grinder shall not exceed the limits specified below:

Particulate Matter	0.85 lb/hr	3.7 tons/yr
PM-10	0.85 lb/hr	3.7 tons/yr

(9 VAC 5-80-110 and Condition 4 of 6/15/2004 Permit)

B. Supporting Equipment Maintenance/Operating Procedures

The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:

1. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
2. Maintain an inventory of spare parts for air pollution control devices.
3. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
4. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.

(9 VAC 5-50-20 E and Condition 13 of 6/15/2004 Permit)

C. Supporting Equipment Monitoring

At least one time per week a survey for visible emissions from the run-out grinder stack (RGCD-1) shall be conducted. If visible emissions are observed from any stack, the permittee shall:

1. take timely corrective action and re-conduct the observation for the presence of visible emissions to ensure that the run-out grinder has resumed operation with no visible emissions, or
2. conduct a visible emission evaluation (VEE) in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six minutes, to assure visible emissions from the run-out grinder are less than or equal to 10 percent opacity. If any of the 15-second observations exceeds 10% opacity, the observation period shall continue until a total of 60 minutes of observation have been completed. Timely

corrective action shall be taken, if necessary, such that the run-out grinder resumes operation within 10% opacity.

3. If twelve (12) consecutive weekly visible emissions inspections show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Weeks in which the equipment does not operate do not factor into the twelve (12) consecutive weekly inspections. Anytime the monthly visible emissions inspections show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for the run-out grinder.

The permittee shall maintain an observation log to demonstrate compliance. The log shall include the dates and times of the observations, name of the observer, whether or not there were visible emissions, any VEE recordings and any necessary corrective action.

(9 VAC 5-80-110 E)

D. Supporting Equipment Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

1. Results of the weekly opacity observation of the run-out grinder stack (RGCD-1), along with any corrective actions,
(9 VAC 5-80-110)
2. Monthly emissions calculations for PM and PM-10 from the Collmann Run-out tire grinder using calculation methods approved by the South Central Regional Office to verify compliance with the ton/yr emissions limitations in Condition X.A.4.
(9 VAC 5-80-110 and Condition 6 of 6/15/2004 permit)
3. Scheduled and unscheduled maintenance, and operator training.
(9 VAC 5-80-110 and Condition 6 of 6/15/2004 permit)

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

E. Supporting Equipment Testing

The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.

(9 VAC 5-80-110 and Condition 7 of 6/15/2004 Permit)

XI. Insignificant Emission Units

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
EU 043	Pigment Blender	(9 VAC 5-80-720 B)	PM	
EU 048	Clay Mix Slurry Station	(9 VAC 5-80-720 B)	PM	
EU 049	Clay Mix Slurry Station	(9 VAC 5-80-720 B)	PM	
EU 039- EU 041	Green (Aircraft) Tire Spray Booths (#1-#3)	(9 VAC 5-80-720 B)	VOC	
EU 047	Scrap Rubber Breakdown Mill and Refiner Mill	(9 VAC 5-80-720 B)	VOC/HAP	
EU 053	Repair Grinding	(9 VAC 5-80-720 B)	PM/VOC/HAP	
EU 056	Cooling Tower	(9 VAC 5-80-720 B)	PM	
EU 057	Repair Autoclave	(9 VAC 5-80-720 B)	VOC/HAP	
EU 058	Repair Presses	(9 VAC 5-80-720 B)	VOC/HAP	
EU 052	Parts washers (10)	(9 VAC 5-80-720 B)	VOC	
EU 061	Fire Pump generator	(9 VAC 5-80-720 C)		280 hp
T 001	Fuel oil storage tank	(9 VAC 5-80-720 B)	VOC	
T 003-T008	Process oil tanks	(9 VAC 5-80-720 B)	VOC	
T 009	Used oil tank	(9 VAC 5-80-720 B)	VOC	
T010	Cherine Storage Tank	(9 VAC 5-80-720 B)	VOC	
T011	Diesel Storage tank	(9 VAC 5-80-720 B)	VOC	
T012	Gasoline	(9 VAC 5-80-720 B)	VOC	

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

XII. Permit Shield & Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
40 CFR Part 60, Subpart D	New Source Performance Standard for Fossil-fuel Fired Steam Generators constructing after August 17, 1971	All boilers at Goodyear Danville have heat input capacity less than the applicability threshold of 250 MMBtu/hr.
40 CFR Part 60, Subpart Db	New Source Performance Standard for Industrial-Commercial-Institutional Steam Generating Units	All boilers with heat input capacity of greater than or equal to the applicability threshold of 100 MMBtu/hr were installed prior to the effective date of November 25, 1985.
40 CFR Part 60, Subpart Dc	New Source Performance Standard for Industrial-Commercial-Institutional Steam Generating Units	All boilers at the Goodyear Danville facility were installed prior to the effective date of June 9, 1989.
40 CFR Part 60, Subpart BBB	New Source Performance Standard for Rubber Tire Manufacturing	This standard applies to affected facilities that commence construction, modification, or reconstruction after January 20, 1983. Furthermore, the standard only applies to equipment manufacturing tires with a bead diameter of less than or equal to 19.7 inches. None of the truck tire manufacturing equipment at the facility is affected because all of the truck tires made at Goodyear Danville have a bead diameter greater than 19.7 inches. The Goodyear Danville facility does have a tread end cementing operation and three green tire spray booths for aircraft tires with a bead diameter less than 19.7 inches, but this equipment was installed prior to NSPS applicability and has not been modified. Accordingly, no equipment at the facility is subject to Subpart BBB.
40 CFR Part 60, Subpart VVV	New Source Performance Standard for Polymeric Coating of Supporting Substrates Facilities	NSPS Subpart VVV applies to polymeric coating operations that have been installed or modified after April 30, 1987. In addition, if a polymeric coating line is subject to the requirements of Subpart VVV, any onsite coating mix operations directly associated with that coating line also become subject. The Fabric Calender and Unisteel Wire Calender operations are the only units at Goodyear Danville that potentially meet the definition of polymeric coating of a supporting substrate. However, both of these units were installed prior to the April 30, 1987 applicability date and neither has been modified. Accordingly, no equipment at the facility is subject to Subpart VVV.

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by (i) the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.
(9 VAC 5-80-140)

XIII. General Conditions

A. Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.

(9 VAC 5-80-110 N)

B. Permit Expiration

This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent, with 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.

1. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
2. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
3. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
4. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
5. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

(9 VAC 5-80-80 B, C and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

C. Permit Invalidation

The portions of this permit which allow installation or modification of equipment (as part of the Modernization Project) shall become invalid, unless an extension is granted by the DEQ, if a program of modification with respect to these units is discontinued for a period of 18 months or more, or is not completed within a reasonable time.

(9 VAC 5-80-10 K and Condition 21 of 9/4/02 Permit)

D. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:

- a. The date, place as defined in the permit, and time of sampling or measurements.
- b. The date(s) analyses were performed.
- c. The company or entity that performed the analyses.
- d. The analytical techniques or methods used.
- e. The results of such analyses.
- f. The operating conditions existing at the time of sampling or measurement.

(9 VAC 5-80-110 F)

2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

(9 VAC 5-80-110 F)

3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

- a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
- b. All deviations from permit requirements. For purposes of this permit, deviations include, but are not limited to:

(1) Exceedance of emissions limitations or operational restrictions;

- (2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or compliance assurance monitoring which indicates an exceedance of emission limitations or operational restrictions; or,
 - (3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that “no deviations from permit requirements occurred during this semi-annual reporting period.”

(9 VAC 5-80-110 F)

E. Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to DEQ and EPA no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.
2. The identification of each term or condition of the permit that is the basis of the certification.
3. The compliance status.
4. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
5. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
6. Such other facts as the permit may require to determine the compliance status of the source.

One copy of the annual compliance certification shall be sent to EPA at the following address:

Clean Air Act Title V Compliance Certification (3AP00)

U. S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029.

(9 VAC 5-80-110 K.5)

F. Permit Deviation Reporting

The permittee shall notify the Director, South Central Region within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition XIII.D.3 of this permit.
(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

G. Failure/Malfunction Reporting

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Director, South Central Region by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, South Central Region.
(9 VAC 5-20-180 C)

H. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9 VAC 5-80-110 G.1)

I. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.

(9 VAC 5-80-110 G.2)

J. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(9 VAC 5-80-110 G.3)

K. Permit Modification

A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1605, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.

(9 VAC 5-80-190 and 9 VAC 5-80-260)

L. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege.

(9 VAC 5-80-110 G.5)

M. Duty to Submit Information

1. The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.

(9 VAC 5-80-110 G.6)

2. Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.

(9 VAC 5-80-110 K.1)

N. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.
(9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

O. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
2. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;
4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
5. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-40-90 and 9 VAC 5-50-90)

P. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring

results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20)

Q. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1. (9 VAC 5-80-110 J)

R. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

S. Reopening For Cause

The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.

1. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
2. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
3. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

T. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9 VAC 5-80-150 E)

U. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)
2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

V. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the conditions of paragraph 2 are met.
2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:

- a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
- b. The permitted facility was at the time being properly operated.
- c. During the period of malfunction, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit.
- d. The permittee notified the board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F 2 b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.
- e. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.
- f. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any requirement applicable to the source.

(9 VAC 5-80-250)

W. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any of the grounds for revocation or termination or for any other violations of these regulations.

(9 VAC 5-80-190 C and 9 VAC 5-80-260)

X. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.

(9 VAC 5-80-80 E)

Y. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(40 CFR Part 82, Subparts A-F)

Z. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(40 CFR Part 68)

AA. Changes to Permits for Emissions Trading

No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9 VAC 5-80-110 I)

BB. Emissions Trading

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

1. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)

Compliance Assurance Monitoring Plan – Cyclone Separators

Indicator	Indicator 1-A	Indicator 1-B
Measurement approach	Opacity	Visible Emission Evaluation (optional - to determine if Indicator 1-A excursion has occurred)
	Visible emission observations conducted daily at the cyclone stack.	Method 9 VEE in accordance with 40 CFR 60, Appendix A conducted optionally to determine if an excursion occurs. Results recorded upon completion of each Method 9. If visible emissions are observed by Indicator 1-A and a Method 9 VEE is not conducted, then an excursion has occurred.
Indicator range	An excursion is defined as the presence of any visible emission from the cyclone stack unless otherwise determined by Indicator 1-B.	An excursion is defined as an average opacity greater than 20% during one six-minute period in any one hour.
Averaging Periods	Instantaneous	One six minute period in any one hour.
Quality Improvement Plan (QIP) Threshold	2 excursions in a 2 week period	Single excursion
Performance criteria:	Observation of visible emissions indicates possible damage to cyclone.	Observation of visible emissions greater than 20% indicates corrective action which may include replacement or maintenance of cyclone.
Data Representativeness	Records that indicate time, facility operational status and results of each observation.	Records that indicate time, facility operational status and results of each observation.
Verification of operational status	Qualified personnel to perform observations.	Certified personnel shall perform Method 9.
QA/QC practices and criteria	Daily	Upon the observation of visible emissions from cyclone stack.
Monitoring frequency and data collection procedure		